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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/518,738	12/16/2004	David M Avery	GB02 0098 US	1318
24738 7590 01/16/2007 PHILIPS ELECTRONICS NORTH AMERICA CORPORATION INTELLECTUAL PROPERTY & STANDARDS 1109 MCKAY DRIVE, M/S-41SJ SAN JOSE, CA 95131			EXAMINER AMINZAY, SHAIMA Q	
			ART UNIT 2618	PAPER NUMBER
SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE	
3 MONTHS		01/16/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary

Application No.

10/518,738

Applicant(s)

AVERY ET AL.

Examiner

Shaïma Q. Aminzay

Art Unit

2618

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 16 December 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-14 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-14 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 16 December 2004 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Objections

1. Claims 1-14 are objected under 37 CFR 1.75(c) as being improper, the reference designators are listed within the limitations of the claims. Applicant's correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1, 7, and 12 are rejected under 35 U.S.C. 102(e) as being anticipated by Lindoff (Lindoff et al., Ericsson International Publication PCT WO 02/37771 A2).

Regarding claim 1, Lindoff discloses a method for extending the radio coverage area of a communication system operating according to a

predetermined radio protocol (see for example, Figures 1-7, page 1, lines 3-28, page 2, lines 1-28, page 3, lines 1-29, page 4, lines 4-22, page 5, lines 3-9, lines 13-29, page 6, lines 9-13, page 7, lines 5-17, lines 22-27, page 9, lines 9-20, page 10, lines 6-29, page 11, lines 1-7, page 13, lines 25-29, page 14, lines 1-8, the communication systems with predetermined protocol process extends the radio transmission coverage), the system comprising a primary station having a radio coverage area (see for example, Figures 1-7, page 1, lines 3-28, page 2, lines 1-28, page 3, lines 1-29, page 4, lines 4-22, page 5, lines 3-9, lines 13-29, page 6, lines 9-13, page 7, lines 5-17, lines 22-27, page 9, lines 9-20, page 10, lines 6-29, page 11, lines 1-7, page 13, lines 25-29, page 13, lines 25-29, page 14, lines 1-8, the system including the coverage area of the primary station (20)), a first secondary station within the coverage area and a further secondary station which is located outside of the radio coverage area of the primary station (see for example, Figures 1-7, page 1, lines 3-28, page 2, lines 1-28, page 3, lines 1-29, page 4, lines 4-22, page 5, lines 3-9, lines 13-29, page 6, lines 9-13, page 7, lines 5-17, lines 22-27, page 9, lines 9-20, page 10, lines 6-29, page 11, lines 1-7, page 13, lines 25-29, page 14, lines 1-8, the Master MT 10 (first secondary station) with the coverage area and further Slave MT 30 in a further away from the primary location), the method comprising a message exchange process in which: the first secondary station receives from the primary station messages intended for the further secondary station (see for example, Figures 1-7, page 1, lines 3-28, page 2, lines 1-28, page 3, lines 1-29, page 4, lines 4-22, page 5,

lines 3-9, lines 13-29, page 6, lines 9-13, page 7, lines 5-17, lines 22-27, page 9, lines 9-20, page 10, lines 6-29, page 11, lines 1-7, page 13, lines 25-29, page 14, lines 1-8, including data message transmission that the Master MT 10 and Slave MT 30 receives from the Primary Station 20 for the further Slave MT 30); and transmits said messages to the further secondary station (see for example, Figures 2, page 1, lines 3-28, page 2, lines 1-28, page 3, lines 1-29, page 4, lines 4-22, page 5, lines 3-9, lines 13-29, page 6, lines 9-13, page 7, lines 5-17, lines 22-27, page 9, lines 9-20, page 10, lines 6-29, page 11, lines 1-7, page 13, lines 25-29, page 14, lines 1-8, and transmits the data message to the further Slave MT 30); and the first secondary station receives from the further secondary station messages intended for the primary station (see for example, Figures 1-7, page 1, lines 3-28, page 2, lines 1-28, page 3, lines 1-29, page 4, lines 4-22, page 5, lines 3-9, lines 13-29, page 6, lines 9-13, page 7, lines 5-17, lines 22-27, page 9, lines 9-20, page 10, lines 6-29, page 11, lines 1-7, page 13, lines 25-29, page 14, lines 1-8, the Master MT 10 (first secondary station) receives from the further Slave MT 30 (further secondary station) for the Primary Station 20); and transmits said messages to the primary station (see for example, Figures 1-7, page 1, lines 3-28, page 2, lines 1-28, page 3, lines 1-29, page 4, lines 4-22, page 5, lines 3-9, lines 13-29, page 6, lines 9-13, page 7, lines 5-17, lines 22-27, page 9, lines 9-20, page 10, lines 6-29, page 11, lines 1-7, page 13, lines 25-29, page 14, lines 1-8, , and transmits the data message to the Primary Station 20).

Regarding claim 7, Lindoff discloses a communication system operating according to a predetermined radio protocol and comprising a primary station having a radio coverage area (see for example, *Figures 1-7, page 1, lines 3-28, page 2, lines 1-28, page 3, lines 1-29, page 4, lines 4-22, page 5, lines 3-9, lines 13-29, page 6, lines 9-13, page 7, lines 5-17, lines 22-27, page 9, lines 9-20, page 10, lines 6-29, page 11, lines 1-7, page 13, lines 25-29, page 14, lines 1-8, the communication systems with predetermined protocol process extends the radio transmission coverage*), a first secondary station within the coverage area and a further secondary station which is located outside of the radio coverage area of the primary station (see for example, *Figures 1-7, page 1, lines 3-28, page 2, lines 1-28, page 3, lines 1-29, page 4, lines 4-22, page 5, lines 3-9, lines 13-29, page 6, lines 9-13, page 7, lines 5-17, lines 22-27, page 9, lines 9-20, page 10, lines 6-29, page 11, lines 1-7, page 13, lines 25-29, page 14, lines 1-8, the Master MT 10 (first secondary station) with the coverage area and further Slave MT 30 in a further away from the primary location*), the first secondary station having means for receiving from the primary station messages intended for the further secondary station (see for example, *Figures 1-7, page 1, lines 3-28, page 2, lines 1-28, page 3, lines 1-29, page 4, lines 4-22, page 5, lines 3-9, lines 13-29, page 6, lines 9-13, page 7, lines 5-17, lines 22-27, page 9, lines 9-20, page 10, lines 6-29, page 11, lines 1-7, page 13, lines 25-29, page 14, lines 1-8, including data message transmission that the Master MT 10 and Slave MT 30 receives from the Primary Station 20 for the further Slave MT 30*), for

transmitting said messages to the further secondary station (see for example, *Figures 2, page 1, lines 3-28, page 2, lines 1-28, page 3, lines 1-29, page 4, lines 4-22, page 5, lines 3-9, lines 13-29, page 6, lines 9-13, page 7, lines 5-17, lines 22-27, page 9, lines 9-20, page 10, lines 6-29, page 11, lines 1-7, page 13, lines 25-29, page 14, lines 1-8, and transmits the data message to the further Slave MT 30*), for receiving from the further secondary station messages intended for the primary station and for transmitting said messages to the primary station (see for example, *Figures 1-7, page 1, lines 3-28, page 2, lines 1-28, page 3, lines 1-29, page 4, lines 4-22, page 5, lines 3-9, lines 13-29, page 6, lines 9-13, page 7, lines 5-17, lines 22-27, page 9, lines 9-20, page 10, lines 6-29, page 11, lines 1-7, page 13, lines 25-29, page 14, lines 1-8, the Mater MT 10 (first secondary station) receives from the further Slave MT 30 (further secondary station) for the Primary Station 20*).

Regarding claim 12, Lindoff discloses a first secondary station for use in a communication system operating according to a predetermined radio protocol and having a primary station having a radio coverage area (see for example, *Figures 1-7, page 1, lines 3-28, page 2, lines 1-28, page 3, lines 1-29, page 4, lines 4-22, page 5, lines 3-9, lines 13-29, page 6, lines 9-13, page 7, lines 5-17, lines 22-27, page 9, lines 9-20, page 10, lines 6-29, page 11, lines 1-7, page 13, lines 25-29, page 14, lines 1-8, the communication systems with predetermined protocol process extends the radio transmission coverage*), and a further

secondary station which is located outside of the radio coverage area of the primary station (see for example, *Figures 1-7, page 1, lines 3-28, page 2, lines 1-28, page 3, lines 1-29, page 4, lines 4-22, page 5, lines 3-9, lines 13-29, page 6, lines 9-13, page 7, lines 5-17, lines 22-27, page 9, lines 9-20, page 10, lines 6-29, page 11, lines 1-7, page 13, lines 25-29, page 14, lines 1-8, the Master MT 10 (first secondary station) with the coverage area and further Slave MT 30 in a further away from the primary location*), the first secondary station being located within the radio coverage area of the primary station and comprising means for receiving from the primary station messages intended for the further secondary station (see for example, *Figures 1-7, page 1, lines 3-28, page 2, lines 1-28, page 3, lines 1-29, page 4, lines 4-22, page 5, lines 3-9, lines 13-29, page 6, lines 9-13, page 7, lines 5-17, lines 22-27, page 9, lines 9-20, page 10, lines 6-29, page 11, lines 1-7, page 13, lines 25-29, page 14, lines 1-8, the Master MT 10 (first secondary station) with the coverage area and further Slave MT 30 in a further away from the primary location*), for transmitting said messages to the further secondary station (see for example, *Figures 2, page 1, lines 3-28, page 2, lines 1-28, page 3, lines 1-29, page 4, lines 4-22, page 5, lines 3-9, lines 13-29, page 6, lines 9-13, page 7, lines 5-17, lines 22-27, page 9, lines 9-20, page 10, lines 6-29, page 11, lines 1-7, page 13, lines 25-29, page 14, lines 1-8, and transmits the data message to the further Slave MT 30*), for receiving from the further secondary station messages intended for the primary station and for transmitting said messages to the primary station (see for example, *Figures 1-7,*

page 1, lines 3-28, page 2, lines 1-28, page 3, lines 1-29, page 4, lines 4-22, page 5, lines 3-9, lines 13-29, page 6, lines 9-13, page 7, lines 5-17, lines 22-27, page 9, lines 9-20, page 10, lines 6-29, page 11, lines 1-7, page 13, lines 25-29, page 14, lines 1-8, the Master MT 10 (first secondary station) receives from the further Slave MT 30 (further secondary station) for the Primary Station 20, and transmits the data message to the Primary Station 20).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action.

(a) Patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 2-5, 8-10, and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lindoff (Lindoff et al., Ericsson International Publication PCT WO 02/37771 A2) in view of Valkenburg (Van Valkenburg et al., U.S. Patent 6,775,258).

Regarding claim 2, Lindoff teaches all the limitations of claim 1, and further, Lindoff teaches wherein the message exchange process follows a registration

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process (see for example, *Figures 1-7, page 1, lines 3-28, page 2, lines 1-28, page 3, lines 1-29, page 4, lines 4-22, page 5, lines 3-9, lines 13-29, page 6, lines 9-13, page 7, lines 5-17, lines 22-27, page 9, lines 9-20, page 10, lines 6-29, page 11, lines 1-7, page 13, lines 25-29, page 14, lines 1-8*) in which: the further secondary station transmits to the first secondary station a message comprising registration information (see for example, *Figures 1-7, page 1, lines 3-28, page 2, lines 1-28, page 3, lines 1-29, page 4, lines 4-22, page 5, lines 3-9, lines 13-29, page 6, lines 9-13, page 7, lines 5-17, lines 22-27, page 9, lines 9-20, page 10, lines 6-29, page 11, lines 1-7, page 13, lines 25-29, page 14, lines 1-8*)., and the first secondary station transmits said registration information to the primary station to register the further secondary station with the primary station (see for example, *Figures 1-7, page 1, lines 3-28, page 2, lines 1-28, page 3, lines 1-29, page 4, lines 4-22, page 5, lines 3-9, lines 13-29, page 6, lines 9-13, page 7, lines 5-17, lines 22-27, page 9, lines 9-20, page 10, lines 6-29, page 11, lines 1-7, page 13, lines 25-29, page 14, lines 1-8*).

Lindoff does not specifically teach register. However, Lindoff teaches the telephone radio communication transmission and Bluetooth technology that includes the communication stations and terminals registration (see for example, *Figures 1-7, page 1, lines 3-28, page 2, lines 1-28, page 3, lines 1-29, page 4, lines 4-22*).

In related art dealing with communication system (see for example, *Figures 1-9, column 1, lines 6-13, lines 21-67, column 2, lines 1-2, lines 53-67, column 3,*

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lines 1-33, communication system with extended coverage area), Valkenburg teaches the terminals registrations (see for example, Figures 1-9, column 1, lines 65-67, column 2, lines 1-2, lines 53-67, column 3, lines 1-33, column 4, lines 44-67, column 5, lines 1-29, lines 45-67, column 6, lines 11-13, lines 50-57).

It would have been obvious to one of ordinary skill in the art at the time invention was made to include Valkenburg's register with Lindoff's communication system to provide a communication system with extended coverage area that routs data between any pair of nodes possible and to provide significant improvement mobile communications (*Valkenburg, see for example, column 2, lines 20-35*).

Regarding claims 8, 13, Lindoff teaches all the limitations of claims 7, 12, and further, Lindoff teaches wherein the first secondary station further comprises means for receiving a message comprising registration information from the further secondary station (*see for example, Figures 1-9, column 1, lines 65-67, column 2, lines 1-2, lines 53-67, column 3, lines 1-33, column 4, lines 44-67, column 5, lines 1-29, lines 45-67, column 6, lines 11-13, lines 50-57*) and means for transmitting said registration information to the primary station to *[register]* the further secondary station with the primary station (*see for example, Figures 1-9, column 1, lines 65-67, column 2, lines 1-2, lines 53-67, column 3, lines 1-33, column 4, lines 44-67, column 5, lines 1-29, lines 45-67, column 6, lines 11-13, lines 50-57*).

Lindoff does not specifically teach register. However, Lindoff teaches the telephone radio communication transmission and Bluetooth technology that includes the communication stations and terminals registration (*see for example, Figures 1-7, page 1, lines 3-28, page 2, lines 1-28, page 3, lines 1-29, page 4, lines 4-22*).

In related art dealing with communication system (*see for example, Figures 1-9, column 1, lines 6-13, lines 21-67, column 2, lines 1-2, lines 53-67, column 3, lines 1-33, communication system with extended coverage area*), Valkenburg teaches the terminals registrations (*see for example, Figures 1-9, column 1, lines 65-67, column 2, lines 1-2, lines 53-67, column 3, lines 1-33, column 4, lines 44-67, column 5, lines 1-29, lines 45-67, column 6, lines 11-13, lines 50-57*).

It would have been obvious to one of ordinary skill in the art at the time invention was made to include Valkenburg's register with Lindoff's communication system to provide a communication system with extended coverage area that routs data between any pair of nodes possible and to provide significant improvement mobile communications (*Valkenburg, see for example, column 2, lines 20-35*).

Regarding claim 9, Lindoff teaches all the limitations of claim 7, and further, Lindoff teaches wherein the exchange of messages between the primary station and the first secondary station is synchronised according to a periodic beacon signal transmitted by said primary station (*see for example, Figures 1-7, page 1,*

lines 3-28, page 2, lines 1-28, page 3, lines 1-29, page 4, lines 4-22, page 5, lines 3-9, lines 13-29, page 6, lines 9-13, page 7, lines 5-17, lines 22-27, page 9, lines 9-20, page 10, lines 6-29, page 11, lines 1-7, page 13, lines 25-29, page 14, lines 1-8, the Primary Station (20) exchange data messages (communication Synchronization) with the Master MT 10 (first secondary station) and the other terminals within that was registered with a reference signal (beacon)). However, Lindoff does not specifically teach the registration. However, Lindoff teaches the telephone radio communication transmission and Bluetooth technology that includes the communication stations and terminals registration (see for example, Figures 1-7, page 1, lines 3-28, page 2, lines 1-28, page 3, lines 1-29, page 4, lines 4-22).

In related art dealing with communication system (see for example, Figures 1-9, column 1, lines 6-13, lines 21-67, column 2, lines 1-2, lines 53-67, column 3, lines 1-33, communication system with extended coverage area), Valkenburg teaches the terminals registrations (see for example, Figures 1-9, column 1, lines 65-67, column 2, lines 1-2, lines 53-67, column 3, lines 1-33, column 4, lines 44-67, column 5, lines 1-29, lines 45-67, column 6, lines 11-13, lines 50-57).

It would have been obvious to one of ordinary skill in the art at the time invention was made to include Valkenburg's register with Lindoff's communication system to provide a communication system with extended coverage area that routs data between any pair of nodes possible and to provide significant improvement mobile communications (Valkenburg, see for example,

column 2, lines 20-35).

Regarding claim 3, Lindoff in view of Valkenburg teach all the limitations of claim 2, further, Lindoff teaches wherein the registration information comprises a unique identifier identifying the further secondary station (see for example, *Figures 1-7, page 1, lines 3-28, page 2, lines 1-28, page 3, lines 1-29, page 4, lines 4-22, page 5, lines 3-9, lines 13-29, page 6, lines 9-13, page 7, lines 5-17, lines 22-27, page 9, lines 9-20, page 10, lines 6-29, page 11, lines 1-7, page 13, lines 25-29, page 14, lines 1-8*), and wherein: the primary station registers the further secondary station by allocating a first identifier associated with the unique identifier of that station and transmits said first identifier to the first secondary station (see for example, *Figures 1-7, page 1, lines 3-28, page 2, lines 1-28, page 3, lines 1-29, page 4, lines 4-22, page 5, lines 3-9, lines 13-29, page 6, lines 9-13, page 7, lines 5-17, lines 22-27, page 9, lines 9-20, page 10, lines 6-29, page 11, lines 1-7, page 13, lines 25-29, page 14, lines 1-8*), and wherein the first secondary station allocates a second identifier associated with the first identifier and with the unique identifier and transmits the second identifier to the further secondary station (see for example, *Figures 1-7, page 1, lines 3-28, page 2, lines 1-28, page 3, lines 1-29, page 4, lines 4-22, page 5, lines 3-9, lines 13-29, page 6, lines 9-13, page 7, lines 5-17, lines 22-27, page 9, lines 9-20, page 10, lines 6-29, page 11, lines 1-7, page 13, lines 25-29, page 14, lines 1-8*), and wherein messages are subsequently exchanged (80,84) according to the

associated identifiers (see for example, *Figures 1-7, page 1, lines 3-28, page 2, lines 1-28, page 3, lines 1-29, page 4, lines 4-22, page 5, lines 3-9, lines 13-29, page 6, lines 9-13, page 7, lines 5-17, lines 22-27, page 9, lines 9-20, page 10, lines 6-29, page 11, lines 1-7, page 13, lines 25-29, page 14, lines 1-8*), and further, Valkenburg teaches registrations (see for example, *Figures 1-9, column 1, lines 65-67, column 2, lines 1-2, lines 53-67, column 3, lines 1-33, column 4, lines 44-67, column 5, lines 1-29, lines 45-67, column 6, lines 11-13, lines 50-57*).

Regarding claim 4, Lindoff in view of Valkenburg teach all the limitations of claim 3, and further, Lindoff teaches wherein communication between the primary station and the first secondary station is synchronised according to a first periodic beacon signal transmitted by said primary station (see for example, *Figures 1-7, page 1, lines 3-28, page 2, lines 1-28, page 3, lines 1-29, page 4, lines 4-22, page 5, lines 3-9, lines 13-29, page 6, lines 9-13, page 7, lines 5-17, lines 22-27, page 9, lines 9-20, page 10, lines 6-29, page 11, lines 1-7, page 13, lines 25-29, page 14, lines 1-8, the Primary Station (20) exchange data messages (communication Synchronization) with the Master MT 10 (first secondary station) and the other terminals within that was registered with a reference signal (beacon)*)).

Regarding claims 5, 10, Lindoff in view of Valkenburg teach all the limitations of claim 4, 9, and further, Lindoff teaches wherein the first secondary station

reserves a portion of the time period between the periodic beacon signals (see for example, *Figures 1-7, page 1, lines 3-28, page 2, lines 1-28, page 3, lines 1-29, page 4, lines 4-22, page 5, lines 3-9, lines 13-29, page 6, lines 9-13, page 7, lines 5-17, lines 22-27, page 9, lines 9-20, page 10, lines 6-29, page 11, lines 1-7, page 13, lines 25-29, page 14, lines 1-8*), and wherein the first secondary station transmits and receives messages to and from the further secondary station (24) during this reserved time period (see for example, *Figures 1-7, page 1, lines 3-28, page 2, lines 1-28, page 3, lines 1-29, page 4, lines 4-22, page 5, lines 3-9, lines 13-29, page 6, lines 9-13, page 7, lines 5-17, lines 22-27, page 9, lines 9-20, page 10, lines 6-29, page 11, lines 1-7, page 13, lines 25-29, page 14, lines 1-8*).

4. Claims 6, 11, and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lindoff (Lindoff et al., Ericsson International Publication PCT WO 02/37771 A2) in view of Olson (Olson et al., U.S. Patent 6,830,340).

Regarding claims 6, 11, 14, Lindoff teaches all the limitations of claim 1, 7, 14, and further, Lindoff teaches the predetermined radio protocol (see for example, *Figures 1-7, page 1, lines 3-28, page 2, lines 1-28, page 3, lines 1-29, page 4, lines 4-22, page 5, lines 3-9, lines 13-29, page 6, lines 9-13, page 7, lines 5-17, lines 22-27, page 9, lines 9-20, page 10, lines 6-29, page 11, lines 1-7, page 13,*

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lines 25-29, page 14, lines 1-8), however, Lindoff does not specifically teaches the ZigBee standard. In related art, Olson teaches the ZigBee radio standard (see for example, column 2, lines 7-8, column 1, lines 45-54, column 2, lines 7-16, column 3, lines 55-67, column 5, lines 30-33, lines 66-67, column 6, lines 1-19, column 8, lines 28-38).

It would have been obvious to one of ordinary skill in the art at the time invention was made to include Olson's ZigBee standard with Lindoff's communication system to provide a communication system with extended coverage area and with increased interface capabilities for different data transmission that is suitable for fixed/mobile wireless networks (Olson, *see for example*, column 3, lines 55-67).

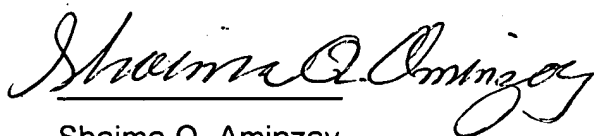
Conclusion

The prior art made of record considered pertinent to applicant's disclosure, Lindoff (Lindoff et al., Ericsson International Publication PCT WO 02/37771 A2), and see PTO-892 form.

Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shaima Q. Aminzay whose telephone number is 571-272-7874. The examiner can normally be reached on 7:00 AM -4:00 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mathew D. Anderson can be reached on 571-272-4177. The fax number for the organization where this application or proceeding is assigned is 571-273-8300.

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Shaima Q. Aminzay
(Examiner)



MATTHEW ANDERSON
SUPERVISORY PATENT EXAMINER

January 7, 2007